FORM 273-149  
OCT 23 1997U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

MASIMO.056A

APPLICATION NO.

08/834,194

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT

Mohamed K. Diab, et al.

FILING DATE

April 14, 1997

GROUP

Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SP	Re 3 5 1 2 2	12/19/95	Corenman et al.			
SP	3 6 4 7 2 9 9	03/07/72	Lavallee			
SP	3 7 0 4 7 0 6	12/05/72	Herczfeld et al.			
SP	4 0 6 3 5 5 1	12/20/77	Sweeney			
SP	4 0 8 6 9 1 5	05/02/78	Kofsky et al.			
SP	4 0 9 5 1 1 7	06/13/78	Nagy			
SP	4 1 2 9 1 2 4	12/12/78	Thalmann			
SP	4 3 0 8 4 5 6	12/29/81	Van Der Gaag et al.			
SP	4 4 0 7 2 9 0	10/04/83	Wilber			
SP	4 5 3 7 2 0 0	08/27/85	Widrow			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
SP	0 1 0 2 8 1 6	03/14/84	Europe				
SP	0 3 2 9 1 9 6	08/23/89	Europe				
SP	W O 9 4 0 9 6 9 8	05/11/94	PCT				
SP	E P 0 7 4 3 0 4 2	11/20/96	Europe				
SP	E P 0 7 4 4 1 5 4	11/27/96	Europe				

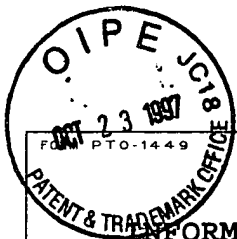
## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

SP	A. ✓	Widrow, Bernard et al., Chapter 2: "The Adaptive Linear Combiner", Adaptive Signal Processing, Prentice-Hall, Inc., pp. 15-26., 1985.
SP	B. ✓	Widrow, Bernard et al., Chapter 12: "Adaptive Interference Canceling", Adaptive Signal Processing, Prentice-Hall, Inc., pp. 302-367., 1985.
SP	C. ✓	Tremper, Kevin K. et al., "Pulse Oximetry: Technical Aspects of Machine Design" by Jonas A. Pologe, Advances in Oxygen Monitoring, Little, Brown and Company, 1987, pp. 137-153.

EXAMINER

DATE CONSIDERED

\*EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.



PTO-1449

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	4 6 4 9 5 0 5	03/10/87	Zinser, Jr. et al.			
<i>S</i>	4 6 6 0 1 5 1	04/21/87	Chipman et al.			
<i>W</i>	4 7 7 3 4 2 2	09/27/88	Isaacson et al.			
<i>W</i>	4 7 9 3 3 6 1	12/27/88	DuFault			
<i>W</i>	4 7 9 9 4 9 3	01/24/89	DuFault			
<i>S</i>	4 8 0 0 4 9 5	01/24/89	Smith			
<i>W</i>	4 8 0 2 4 8 6	02/07/89	Goodman et al.			
<i>W</i>	4 8 2 4 2 4 2	04/25/89	Frick et al.			
<i>W</i>	4 8 4 6 1 8 3	07/11/89	Martin			
<i>W</i>	4 8 4 8 9 0 1	07/18/89	Hood, Jr.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>W</i>	D. ✓	Klimasauskas, Casey, "Neural Nets and Noise Filtering" Article, Dr. Dobb's Journal, January 1989, pp. 32-34, 36-38, 42, 47, 49, 96, 98, 100.
<i>W</i>	E. ✓	Neuman, Michael R., "Pulse Oximetry: Physical Principles, Technical Realization and Present Limitations", Continuous Transcutaneous Monitoring, Plenum Press, New York, 1987, pp. 135-144.
<i>W</i>	F. ✓	Severinghaus, John W. M.D., "Pulse Oximetry Uses and Limitations", ASA Convention 1989, New Orleans.

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<i>W</i>	4 8 5 4 6 9 9	08/08/89	Edgar, Jr.			
<i>W</i>	4 8 5 9 0 5 7	08/22/89	Taylor et al.			
<i>W</i>	4 8 6 0 7 5 9	08/29/89	Kahn et al.			
<i>W</i>	4 8 6 3 2 6 5	09/05/89	Flower et al.			
<i>W</i>	4 8 6 7 5 7 1	09/19/89	Frick et al.			
<i>W</i>	4 8 6 9 2 5 3	09/26/89	Craig, Jr. et al.			
<i>W</i>	4 8 6 9 2 5 4	09/26/89	Stone et al.			
<i>W</i>	4 8 8 3 3 5 3	11/28/89	Hausman et al.			
<i>W</i>	4 8 9 2 1 0 1	01/09/90	Cheung et al.			
<i>W</i>	4 9 0 7 5 9 4	03/13/90	Muz			

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						YES	NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>W</i>	G. ✓	Cohen, Arnon Ph.D., "Volume I: Time and Frequency Domains Analysis", Biomedical Signal Processing, CRC Press, Inc., pp. 152-159.
<i>W</i>	H. ✓	Harris, Fred et al., "Digital Signal Processing With Efficient Polyphase Recursive All-Pass Filters" Article, Presented at International Conference on Signal Processing Florence, Italy, Sept. 4-6, 1991.
<i>W</i>	I. ✓	Rabiner, Lawrence R. et al., "Theory and Approximation of Infinite Impulse Response Digital Filters", Prentice Hall Inc., Englewood Cliffs, NJ, 1975, p. 260.

EXAMINER

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




























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*6/8/98*

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PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>MASIMO.056A</b>	APPLICATION NO. <b>08/834,194</b>
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT <b>Mohamed K. Diab, et al.</b>	
		FILING DATE <b>April 14, 1997</b>	GROUP <b>Unknown</b>

U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4	9	1	1	1	6	7	03/27/90	Corenman et al.			
		4	9	2	7	2	6	4	05/22/90	Shiga et al.			
		4	9	2	8	6	9	2	05/29/90	Goodman et al.			
		4	9	3	4	3	7	2	06/19/90	Corenman et al.			
		4	9	4	8	2	4	8	08/14/90	Lehman			
		4	9	5	5	3	7	9	09/11/90	Hall			
		4	9	5	6	8	6	7	09/11/90	Zurek et al.			
		5	0	0	3	9	7	7	04/02/91	Suzuki et al.			
		5	0	5	7	6	9	5	10/15/91	Hirao et al.			
		5	1	9	0	0	4	7	03/02/93	Odagiri et al.			

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FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
<i>h</i>	J.	Mook, G.A. et al., "Spectrophotometric determination of oxygen saturation of blood independent of the presence of indocyanine green", <u>Cardiovascular Research</u> , Volume 13, 1979, pp. 233-237. ✓
<i>h</i>	K.	Melnikof, Steve, "Neural Networks for Signal Processing: A Case Study" Article, <u>Dr. Dobb's Journal</u> , January 1989, pp. 36-37. ✓
<i>h</i>	L.	Mook, G.A. et al., "Wavelength dependency of the spectrophotometric determination of blood oxygen saturation", <u>Clinical Chemistry Acta</u> , Volume 26, 1969, pp. 170-173. ✓
EXAMINER	DATE CONSIDERED	
<i>h</i>	<i>6/8/98</i>	

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
LC	5 2 7 3 0 3 6	12/28/93	Kronberg et al.	11	11	
LC	5 2 9 7 5 4 8	03/29/94	Pologe	11	11	
LC	5 3 0 8 9 1 9	05/03/94	Minnich	11	11	
LC	5 3 9 8 6 8 0	03/21/95	Polson et al.	11	11	
LC	5 4 5 8 1 2 8	10/17/95	Polanyi et al.	11	11	
LC	5 4 9 0 5 0 5	02/13/96	Diab et al.	11	11	
LC	5 5 1 5 1 6 9	05/07/96	Cargill et al.	11	11	
LC	5 5 8 8 4 2 7	12/31/96	Tien	11	11	
LC	5 6 3 2 2 7 2	05/27/97	Diab et al.	11	11	

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						YES	NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

LC	M. ✓	Brown, David P., "Evaluation of Pulse Oximeters using Theoretical Models and Experimental Studies" Masters Thesis, University of Washington, 1987.
	X	Haykin, Simon, Adaptive Filter Theory, Prentice Hall, Englewood Cliffs, NJ, 1985.
	X	Widrow, Bernard, Adaptive Signal Processing, Prentice Hall, Englewood Cliffs, NJ, 1985.

EXAMINER

LC

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